

SPECIFICATIONS FOR MAT RENTAL SERVICE

1. SCOPE & CLASSIFICATION

- 1.1 The intent of this specification is to describe the minimum requirements for the Mat Rental Service.

2. APPLICABLE DOCUMENTS

- 2.1 Shall meet or exceed DOC FF 1-70 and DOC FF 2-70 standards on flammability.
- 2.2 Shall meet or exceed ASTM D297-79, D3452-78, and D3677-78

3. REQUIREMENTS

- 3.1 The mat specified contains a nylon pile, tufted into a textile substrate, which is subsequently vulcanized to a rubber backing, with excess rubber trimmed away thereafter to form a border. The mat is designed to be processed by commercially recognized procedures in order to remove soil and particulate matter captured by the previous use.

3.2 Component Parts

- 3.2.1 **Rubber Backing:** The rubber backing shall contain suitable plasticizers to afford flexibility at temperature extremes. Vulcanizing agents shall afford one (1) suitable regain from stresses of industrial laundering, and two (2) resistance to industrial solvents to which the mat might be inadvertently exposed.

- 3.2.2 The polymer making up the rubber shall be a copolymer of butadiene / acrylonitrile, the fixed, or bound acrylonitrile, shall be no less than 33%.

- 3.3 **Tufting Substrate:** The tufting substrate shall be anyone of the following.

- 3.3.1 **Typar:** A 4 ounce/yd.² or spun bonded polypropylene or

- 3.3.2 **FLW:** A 4 ounce / yd.² of woven, ribbon-like warp/fill, polypropylene having a needle punched pile side surface of one (1)

nylon (dyed to the same color as the pile), or two (2) black polypropylene or

- 3.3.3 **Kryton:** A 4 ounce / yd. ² of spun bonded polyester wherein the fabric is solution dyed to gray/black to keep grin-thru from being observable.

3.4 Pile Yarns

- 3.4.1 The cut-pile shall be composed of a highly twisted, heat-set, nylon 6,6, crimped, continuous filament virgin yarn. Dyes, for coloration, shall be of the pre-metalized acid class.
- 3.4.2 The pile optionally shall contain built-in, permanent means of bleeding off static charges below human thresh-hole limits.
- 3.4.3 The weight of the pile yarn shall be 20 oz./yd. ², variation of which shall be within "worth street" tolerances. Pile height shall be no less then 6/16" (at the time of tufting). SPI shall be commensurate with pile height/yarn size to afford the weight/yd. ².

3.5 Finished Product

- 3.5.1 The finished product shall contain the following properties at the same time of shipment from the manufacturer:

3.5.1a Mat Weight: Minimum mat weights shall be:

(2) - Solids = TKS:

3	X	4	5.6	(-0.5)	lbs.
3	X	5	6.8	(-0.7)	lbs.
3	X	10	14.5	(-1.2)	lbs.
4	X	6	10.7	(-1.0)	lbs.
4	X	8	15.1	(-1.5)	lbs.

(3) - Pattern, Logos, etc.

3	X	4	5.5	(-0.6)	lbs.
3	X	5	7.0	(-0.8)	lbs.
3	X	10	14.1	(-1.8)	lbs.
4	X	6	10.8	(-1.2)	lbs.

3.5.5b **Borders:** The rubber border may vary between 0.25" – 0.50" in width. The thickness of the border shall be the same as that in the body of the

mat in order to avoid raised perimeter surfaces that might otherwise promote a trip/fall accident.

3.5.5c **Anti-Carpet Creep:** Where specified, the mat will have cleats on the back to reduce the tendency of the mat to “walk” (or creep) on carpeting on which the mat is placed for service.

4. Sampling, Inspection and Test Procedures

- 4.1 The mats furnished shall be as specified and subject to Milwaukee County inspection prior to acceptance.

5. Preparation and Delivery

- 5.1 Preparation and delivery shall be as specified in the bid items.